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| 10/562,180 | 12/22/2005 | Wan Young Lee | 4458WL-6 | 4151 |
| 23442 | 7590 | 06/20/2008 | | |
| SHERIDAN ROSS PC | | | EXAMINER | |
| 1560 BROADWAY | | | PUROL, DAVID M | |
| SUITE 1200 | | | | |
| DENVER, CO 80202 | | | ART UNIT | PAPER NUMBER |
| | | | 3634 | |
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/562,180

Applicant(s)

LEE, WAN YOUNG

Examiner

David M. Puroi

Art Unit

3634

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 May 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) 8, 9 and 11-21 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7, 10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/CDC)
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____
- Paper No(s)/Mail Date: _____

1. Applicant's election with traverse of Species I drawn to figures in the reply filed on May 15, 2008 is acknowledged. The traversal is on the ground(s) that where a single field of search thoroughly covers all of the claims in an application, different classifications in the Patent and Trademark Office should not be controlling. This is not found persuasive because the respective search for three different species each having mutually different characteristics thereby lacking unity in fact presents a serious burden upon the Examiner.

The requirement is still deemed proper and is therefore made FINAL.

The applicant states that claims 1-10 read upon the elected species. However, claims 8 and 9 recite the wire guider as being inside the door leaf which is not encompassed by the elected Species I.

Accordingly, claims 8,9,11-21 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected Species.

2. On page 4, line 28 refers to Fig 13a, however there is no figure labeled as 13a but rather Fig. 13.

Appropriate correction is required.

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 4-6 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. These claims contain subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

It is not known the circuitry or the structural attributes which permits the motor to operate in synchronous with the folding motor and the spreading motor.

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-7,10 are rejected as failing to define the invention in the manner required by 35 U.S.C. 112, second paragraph.

These claims are replete with indefinite language for which its intended meaning is not understood, grammatical and/or idiomatic errors, and narrative in form setting forth functional or operational language for which there is insufficient structural recitation to warrant its presence. For example: claim 1, line 1 "for a half spread folding door" which only refers to the door in functional language whereas the claims positively recite the half spread folding door and as such the preamble of the claims are to reflect that the half spread folding door is an element of the combination, lines 1-2 "using as an entrance of a large structure such as a depot or an air shed", line 2 "each door leaf" for which there is no proper antecedent basis, line 3 "successively connected", line 3 "hinge means" which is a means clause devoid of an intended statement of function, lines 3-4 "a zigzag form in its fully open state", line 7 "the depth portion" for which there is no proper antecedent basis, lines 7-8 "in a predetermined distance from a neighboring first wire guider", line 9 "installed coaxially to the first wire guider", line 10 "provided at", line 10 "a free end frame" for which there is no proper antecedent basis, lines 10-11 "a fixed end frame" for which there is no proper antecedent basis, lines 11-12 "at each rotational shaft" for which there is no proper antecedent basis, line 13 "extended diagonally through each of", line 15 "the free end leaf" for which there is no proper antecedent basis, line 16 "the winding reel" for which there is no proper antecedent

basis, line 17 "the fixed end leaf" for which there is no proper antecedent basis, line 18 "the releasing reel" for which there is no proper antecedent basis, line 18 "in order to fold", line 19 "the adjacent two door leaves"; claim 2, line 3 "the lower guider" for which there is no proper antecedent basis, line 3 "provided at", line 3 "the lower door frame" for which there is no proper antecedent basis, line 4 "extended along a movement of", lines 4-5 "provided rotationally at", line 5 "and running on"; claim 3, line 3 "the upper guider" for which there is no proper antecedent basis, lines 3-4 "the upper door frame" for which there is no proper antecedent basis, line 4 "extended along a movement", line 5 "uprightly extruded from", lines 5-6 "slidingly inserted; claim 4, line 3 "running in the forward or reverse direction is further installed at", lines 3-4 "the free end leaf" for which there is no proper antecedent basis, line 5 "power delivery means" which is a means clause devoid of a statement of an intended function, line 5 "operates in synchronous"; claim 5, line 3 "the motor" for which it is not clear if reference is being made to the folding motor or the spreading motor, line 3 "is provided", line 3 "an upper end of an upright shaft" for which there is no proper antecedent basis, line 5 "rotationally disposed"; claim 7, line 3 "a tension maintainable means is provided" which is a means clause devoid of a statement of an intended function, line 3 "a wire path" for which there is no proper antecedent basis, lines 3-4 "which pushes", lines 4-5 "in order to maintain a proper tension"; claim 10, line 3 "a couple of wire guiders" for which there is no proper antecedent basis, line 3 "rotationally provided".

The structure which goes to make up the device must be clearly and positively specified. The structure must be organized and correlated in such a manner as to present a complete operative device.

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

6. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to David M. Purol whose telephone number is (571) 272-6833.

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Katherine Mitchell, can be reached at (571) 272-7069. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**/David M Purol/
David M Purol
Primary Examiner
Art Unit 3634**